

Title (en)  
Equalization in acoustic signal processing

Title (de)  
Entzerrung zur Anwendung von akustischen Signalen

Title (fr)  
Égaliseur pour le traitement de signaux acoustiques

Publication  
**EP 1858295 B1 20130626 (EN)**

Application  
**EP 06010399 A 20060519**

Priority  
EP 06010399 A 20060519

Abstract (en)  
[origin: EP1858295A1] The present invention relates to a system for signal processing of an acoustic input signal, comprising at least one microphone, an echo compensation filtering configured to receive at least one microphone signal from the at least one microphone and comprising echo compensation filter coefficients determined on the basis of the at least one microphone signal and an equalization filtering means configured to equalize the acoustic input signal and comprising equalization filter coefficients determined on the basis of the echo compensation filter coefficients. The invention also relates to a method for enhancing the quality of a first acoustic input signal, comprising outputting a second acoustic input signal by at least one loudspeaker to generate a loudspeaker signal, generating at least one microphone signal on the basis of the loudspeaker signal, echo compensating the at least one microphone signal by adaptation of an echo compensation filtering means and equalizing the first acoustic input signal on the basis of the adapted echo compensation filtering means.

IPC 8 full level  
**H04R 3/04** (2006.01); **H04R 29/00** (2006.01); **H03G 3/32** (2006.01); **H03G 5/16** (2006.01)

CPC (source: EP US)  
**H03G 3/32** (2013.01 - EP US); **H03G 5/16** (2013.01 - EP US); **H04R 3/04** (2013.01 - EP US); **H04R 2499/13** (2013.01 - EP US)

Cited by  
US9293151B2; WO2013058728A1

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)  
**EP 1858295 A1 20071121**; **EP 1858295 B1 20130626**; JP 2007312364 A 20071129; JP 5148150 B2 20130220; US 2008031471 A1 20080207; US 8098848 B2 20120117

DOCDB simple family (application)  
**EP 06010399 A 20060519**; JP 2007097268 A 20070403; US 74967807 A 20070516